

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	TILT XTRA® Fungicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole and Cyproconazole) Applicable only for marine and air transport
	Product code: A10506A
Recommended Use:	Fungicide for control of certain fungal diseases of wheat and barley
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R22: Harmful if swallowed; R36/38: Irritating to eyes and skin R63: Possible risk to unborn child
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of Pure Substance:	Propiconazole	Cyproconazole
Synonym:	CGA 64250	SAN 619
CAS Number:	60207-90-1	94361-06-5

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Propiconazole	60207-90-1	25
Cyproconazole	94361-06-5	8
1-methyl-2-pyrrolidone	872-50-4	< 20
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

<p>Description of Necessary First Aid Measures:</p>	<p>In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If swallowed seek medical advice immediately. DO NOT induce vomiting.</p> <p>Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p>Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.</p> <p>Inhalation: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poison Information Centre immediately.</p>
<p>Poisoning Symptoms: Medical Advice:</p>	<p>Poisoning symptoms in laboratory animals were non-specific. There is no specific antidote. Treat symptomatically.</p>

Section 5: FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media:</p>	<p><i>Extinguishing media - small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream as it may scatter and spread fire.</p> <p><i>Extinguishing media - large fires</i> Use alcohol-resistant foam. Do not use a solid water stream as it may scatter and spread fire.</p>
<p>Hazards from Combustion Products:</p>	<p>As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Flashback possible over considerable distance. DO NOT allow run-off from fire fighting to enter drains or water courses.</p>
<p>Special Protective Precautions and Equipment for Fire Fighters:</p>	<p>In the event of fire, wear full protective clothing and self-contained breathing apparatus.</p>

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none">• Avoid eye and skin contact• Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	Procedure for spill <ol style="list-style-type: none">(1) Keep all bystanders away(2) Wear full length clothing and PVC gloves(3) Reposition any leaking containers so as to minimise further leakage(4) Dam and absorb spill with an absorbent material (eg sand or soil)(5) Shovel the absorbed spill into drums(6) Disposal of the absorbed material will depend upon the extent of the spill<ul style="list-style-type: none">• For quantities up to 50 L of product bury in a secure landfill site• For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Harmful if swallowed. Will irritate the nose and throat. Avoid contact with eyes and skin. Avoid inhaling vapour. If product in eyes wash it out immediately with water. When opening the container and preparing spray wear:</p> <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist• a washable hat• elbow length PVC gloves• goggles• disposable fume mask <p>When using the prepared spray wear:</p> <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist• a washable hat• elbow length PVC gloves <p>If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves and contaminated clothing.</p>
Conditions for Safe Storage:	Store in the closed, original container in a well ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated		
	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
Syngenta Exposure Standards:	propiconazole	8 mg/m ³	8h TWA
	cyproconazole	0.5 mg/m ³	8h TWA
Biological Limit Values:	No biological limits allocated.		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	<p>Harmful if swallowed. Will irritate the nose and throat. Avoid contact with eyes and skin. Avoid inhaling vapour. If product in eyes wash it out immediately with water. When opening the container and preparing spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat • elbow length PVC gloves • goggles • disposable fume mask <p>When using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat • elbow length PVC gloves <p>If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow-orange to dark brown liquid	Boiling Point/Range:	Not available
Odour:	Sweetish, aromatic	Freezing/Melting Point:	Not available
pH:	4 - 8 at 1 % w/v	Solubility:	Miscible
Vapour Pressure:	Not available	Density:	1.025 g/cm ³ at 20°C
Vapour Density:	Not available	Viscosity, dynamic	15.9 mPa.s at 20°C 8.0 mPa.s at 40°C
Flash Point:	63°C at 1,013 hPa (DIN EN 22719)	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not available	Oxidising Properties:	Not oxidising
Auto Ignition Temperature:	295°C	Combustibility:	Combustible
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under standard conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Hazardous Reactions:	None known

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:

Acute:	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. (LD ₅₀ >2,000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with undiluted product. (LD ₅₀ > 2,000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product not harmful due to inhalation of undiluted product. LC ₅₀ (4h) > 5.17 mg/L air
	Skin irritation:	MODERATE IRRITANT
	Eye irritation:	MODERATE IRRITANT
	Sensitisation:	NOT A SENSITISER
Chronic:	<p>Propiconazole technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects.</p> <p>Cyproconazole technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic or neurotoxic effects. Maternal and foetal toxicity were observed at high dose levels in studies on rats. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.</p>	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p><i>Toxicity to fish:</i> Slightly toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC₅₀ = ca. 22 mg/L</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> Slightly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC₅₀ = ca 48 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> Highly toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E_rC₅₀ = ca. 0.15 mg/L, 72 h</p>
Persistence and Degradability:	<p>Cyproconazole is not persistent in soil or water. Propiconazole is stable in water and is not persistent in soil.</p>
Mobility	<p>Cyproconazole has low to medium mobility in soil. Propiconazole has low to medium mobility in soil.</p>
Environmental Fate (Exposure):	<p>Degrades primarily by microbial action and hydroxylation and is ultimately mineralised</p>
Bioaccumulative Potential:	<p>Cyproconazole does not bioaccumulate. Propiconazole has low to medium potential to bioaccumulate.</p>

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	<p>Non-returnable container: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. For pineapples, dispose of spent dip in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.</p> <p>Returnable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
Special Precautions for Landfill or Incineration:	<p>Not applicable</p>

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Class:	None allocated	Hazchem Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole and Cyproconazole)	Packing Group:	III
Class:	9	Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole and Cyproconazole)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	58167
Poisons Schedule (SUSDP):	6

Section 16: OTHER INFORMATION

Date of preparation or last revision: May 2010
Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.
Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
CONTACT POINT: Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited (02) 8876 8444 24 HOURS EMERGENCY CONTACT: 1800 033 111
This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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